MICRO TWISTER Pro2.4G

with Gyro
STABILISATION SYSTEM
BEGINNERS & ADVANCED FLIGHT MODES
2.4GHz TECHNOLOGY
Long range micro helicopter – up to 30 metres – 4 times further than infrared. Flies indoors or out*.
Performs like no other helicopter!
2.4G

3-channel, 2.4GHz control, indoor helicopter

Features:

- High strength metal side frames and tail boom
- Two Flight Modes, **Beginners or Advanced**, available at the flick of a switch
- Super stable counter rotating design
- Gyro Stabilisation System
- Crash resistant pivoting main blade grips
- Lithium Polymer (LiPo) Battery 180mAh 3.7V
- Charges directly from transmitter or computer USB
- Adjustable trim control
- A,B,C selectable channels
- MOPS - Motor Overload Protection System
- Super Bright LED lighting system
- Range up to 30 meters
- Flight times of up to 6 minutes off a full charge

RETAILERS FIRST CHOICE IN HOBBIES
model engines

R/C HELICOPTER INSTRUCTIONS

Please read the following instructions carefully before use.

GUARANTEE/WARRANTY

Model Engines (Aust.) Pty. Ltd. guarantee this product to be free of manufacturing and assembly defects for a period of 30 days from time of purchase. This does not affect your statutory rights. This warranty is not valid for any damage or subsequent damage arising as a result of a crash, misuse, modification or for damage or consequential damage arising as a result of failure to observe the procedures outlined in this manual. Operation of this model is carried out entirely at the risk of the operator. Please note that, whilst every effort is made to ensure the accuracy of instructions and material included with this product, mistakes can occur neither Model Engines (Aust.) Pty. Ltd. or its retailers will be held liable for any loss or damage arising from the use of this model or for any loss or damage arising from omissions or inaccuracies in the associated instructions or materials included with this product.

We reserve the right to modify the design of this product, contents and manuals without prior notification.

© 2011 Model Engines (Aust.) Pty. Ltd., Noble Park, Victoria 3174, Australia.

www.modelengines.com.au

All rights reserved. E&OE

ABOUT TRAINING, CRASHES & SPARE PARTS

The Mini Twister Scale has been designed to be strong and very easy to repair, however, the helicopter is not invulnerable and most people will tip their helicopter over or break parts during their flying career. This is quite normal. All parts are available as spares from your supplier. Study the exploded view of the helicopter carefully to understand the relationship between parts and how to replace them if necessary.

CRASH DAMAGE IS NOT COVERED BY WARRANTY.

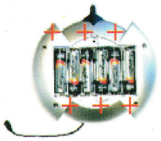
Instructions

- This product is designed to be used indoors, or outdoors **IN DEAD CALM CONDITIONS ONLY**
- Always turn your transmitter on first, before turning on your helicopter.
- During flight, focus on the helicopter, not your transmitter.
- Recommended for children aged 14+ unless under direct adult supervision.
- Always turn your helicopter off before turning off your transmitter.
- Avoid flying in rooms with air currents caused by open windows, heating or airconditioning.
- Do not fly near or over spectators.

Transmitter layout Mode 1

Load Batteries in transmitter

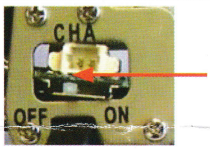
Load 6AA batteries in the transmitter and replace cover. Make sure the +positive and -negative are installed correctly..



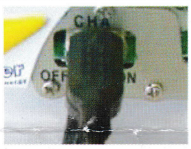
Beginners or Advanced Mode Switch

Beginners mode with the switch in the down position, is ideal to learn to fly as it slows down the Micro Twister Pro 2.4GHz when travelling forwards or backwards.
Advanced Mode with the switch in the Up position causes the Micro Twister Pro 2.4GHz to travel forward and backwards faster.

Charging - Charge time 30mins, DO NOT LEAVE UNATTENDED



Switch must be OFF to charge heli.
Heli will not charge if switch is ON

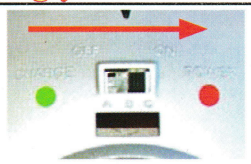


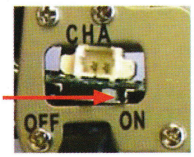
Plug charge lead on transmitter into charge jack on side of Micro Twister Pro 2.4GHz helicopter marked CHA.
Lead only fits one way.
DO NOT FORCE IT!

Turn transmitter ON
Red light/No heli=Power is ON
Green light/with Heli= Charging
No Green light/with Heli=Charged
Unplug charge lead after heli is charged and turn of transmitter.

Micro Twister Pro 2.4GHz Heli may also be charged with supplied USB lead connected to your computer.
USB Red light/No heli= Power Available
USB Red light/with Heli= Charged
USB No light/with Heli=Charging

Arming your Micro Twister Helicopter

OFF  ON



Turn transmitter ON
Always turn the transmitter ON first.
When you have finished flying turn the heli OFF first and the transmitter OFF last.

Turn Heli ON
Always turn the heli ON after the transmitter is ON
When you have finished flying always turn the heli OFF first and the transmitter OFF last.

Mode 1 Mode 2

Arm heli (make ready to fly)by moving the throttle stick all the way forward then all the way down
Hold heli by landing skids while arming to prevent it flying off without warning.

Your Micro Twister Pro 2.4GHz is ready to fly!

Binding Micro Twister Pro2.4G heli

The Micro Twister Pro2.4G comes bound and test flown from the factory. It may become necessary to REBIND the heli to the transmitter if you change transmitters or want to fly a different Micro Twister Pro2.4G helicopter on your transmitter or for some reason the helicopter or transmitter has dropped the BIND.

TO REBIND:

- Turn the heli and transmitter off.
- Hold down the BIND button on the right hand side of the transmitter and turn the transmitter on.
- While continuing to hold the BIND button, turn on the helicopter. Count to 5 and release the BIND button on the transmitter.
- While holding the heli by the skids, slowly move the throttle up and down through its full range, 1-5 times, or until the heli blades start spinning. **If the blades do not turn, repeat the process.**
- Once the blades respond to the throttle, the BIND process is complete and you are ready to start flying.

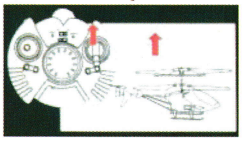
Micro Twister Pro2.4G helicopters are available in two different transmitter configurations known as Mode 1 or Mode 2.

Mode 1 transmitters have the throttle stick on the right hand side of the transmitter.
Mode 2 transmitters have the throttle stick on the left hand side of the transmitter.

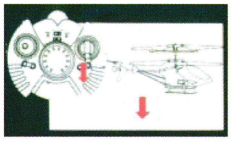
Which Mode you choose is up to you. In Australia 80% of people fly Mode 1.

Flying your Micro Twister Pro2.4G - Mode 1 - Throttle on the RIGHT

TIP: Learn to fly with the nose of the Micro Twister Pro pointing away from you and imagine you are in the cockpit.

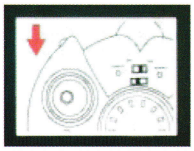


Hover Up
Gently move throttle stick forward to increase helicopter height



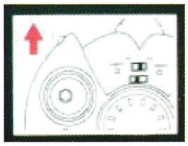
Hover Down
Gently move throttle stick backward to decrease helicopter height

If heli's nose spins to the left while hovering...

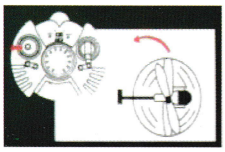


move the trim tab forward until heli holds its heading.

If heli's nose spins to the right while hovering...

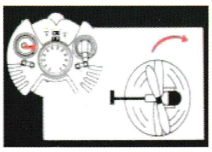


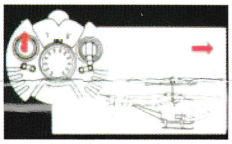
move the trim tab backwards until heli holds its heading.



To turn nose to Left
Gently move direction stick to the left, then release.

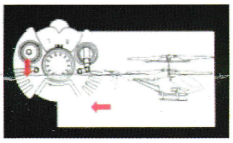
To turn nose to Right
Gently move direction stick to the right, then release.



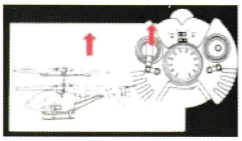


Move forward
Gently move direction stick forwards, then release.

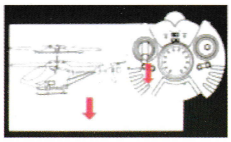
Move backwards
Gently move direction stick backwards, then release.



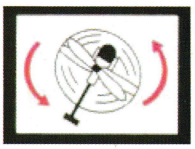
Flying your Micro Twister Pro2.4G - Mode 2 - Throttle on the LEFT



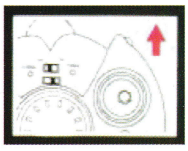
Hover Up
Gently move throttle stick forward to increase helicopter height



Hover Down
Gently move throttle stick backward to decrease helicopter height

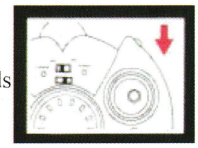


If heli's nose spins to the left while hovering...

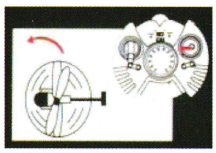


move the trim tab forward until heli holds its heading.

If heli's nose spins to the right while hovering...

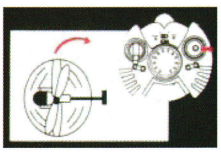


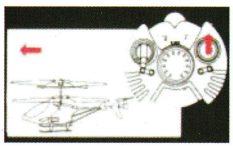
move the trim tab backwards until heli holds its heading.



Turn to Left
Gently move direction stick to the left.

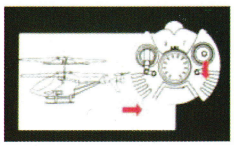
Turn to Right
Gently move direction stick to the right.





Move forward
Gently move direction stick forwards.

Move backwards
Gently move direction stick backwards.

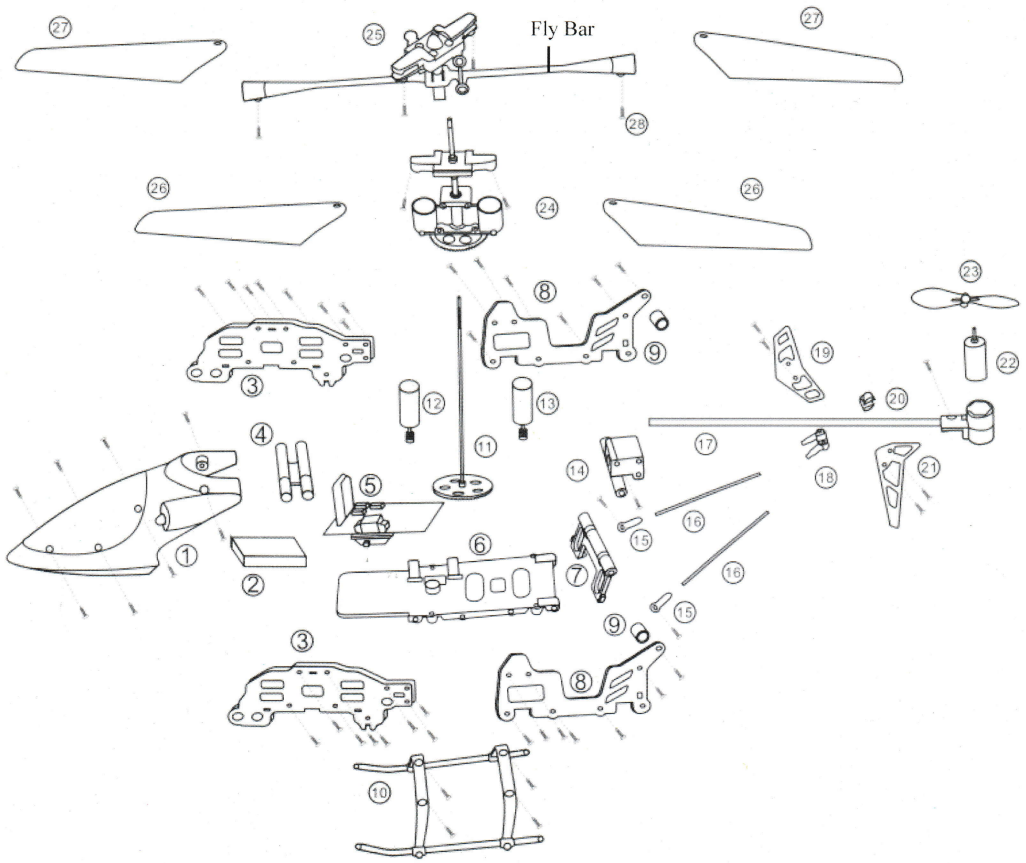


MOPS - Motor Overload Protection System

Your Micro Twister 2.4G is equiped with MOPS.
In the event of a crash or something preventing the main rotor blades from spinning, MOPS will cut power to the heli.
Simply turn your Micro Twister Pr 2.4G OFF and ON and it will be ready to fly again.

Exploded View

Diag. No.	Description
1	Canopy
2	3.7v Battery
3	Upper Side Frame
4	Forward Frame Support
5	Receiver / Gyro Circuit Board
6	Lower Frame Support
7	Rear Frame Support
8	Lower Side Frame
9	Frame Spacer
10	Landing Skids
11	Upper Main Shaft & Gear
12	Front Motor
13	Rear Motor
14	Tail Boom Mount
15	Lower Tail Boom Support End
16	Tail Boom Support
17	Tail Boom
18	Upper Tail Boom Support End
19	Horizontal Stabiliser
20	Horizontal Stabiliser Mount
21	Vertical Stabiliser
22	Tail Motor
23	Tail Blades
24	Upper Frame Mount Assembly
25	Upper Rotor Head Assembly
26	Lower Rotor Blades
27	Upper Rotor Blades
28	Screw Set



Spare Parts

Code	Description	Diagram Numbers	Code	Description	Diagram Numbers
TMP-001	Motor Set	12,13	TMP-008	Stabiliser Set	19,21
TMP-002B	Rotor Blade Set-Blue	26,27	TMP-009	Shaft Bearing	-
TMP-002G	Rotor Blade Set-Green	26,27	TMP-010	Tail Blade	23
TMP-003R	Rotor Blade Set-Red	26,27	**TMP24**-011	Reciver & Gyro Unit	5
TMP-003	Landing Gear Skids	10	TMP-012	Main Frame Assembly	3,4,6,7,8,9,24
TMP24-004B	Canopy-Blue	1	TMP-013	Tail Boom Part Set	14,15,16,17,18,20
TMP24-004G	Canopy-Green	1	TMP-014	Main Shaft Set (upper & lower)	11
TMP24-004R	Canopy-Red	1	TMP-015	Complete Tail Assembly	14,17,18,19,20,21,22
TMP-005	Flybar Assembly	Fly Bar	TMP-016	Tail Motor	22
TMP-006	Battery 180mAh	2	TMP-019	Partial Rotor & Drive Assembly	11,24,25
TMP-007	Rotor Head Set	25	TMP-020	Screw set	28

Please order spare parts using the Codes above from your favorite Toy or Hobby Retailer.
There is a Retailers List on the Model Engines home page.

www.modelengines.com.au

Twister products are distibuted by Model Engines (Aust.) Pty. Ltd. Wholesale Enquiries (03) 8793 5555

ME